

P037444/WO/1

DaimlerChrysler AG

Abstract

The present invention discloses a method for regulating an air conditioning system for a vehicle with closeable openings in the bodywork. It is sensed whether the openings in the bodywork, for example the convertible top of the vehicle is closed or opened. In the closed state, a regulating process of the air conditioning system which is customary for closed vehicles is carried out as a function of the parameters of ambient temperature, setpoint interior temperature, actual interior temperature and solar radiation. In the opened state, according to the invention the system is switched over to regulating the blowing out temperature and the air mass flow rate. The blowing out temperature and air mass flow rate are regulated as a function of the measured solar radiation, the ambient temperature and the speed of the vehicle. In this context, increases or reductions in the blowing out temperature and/or the air mass flow rate are carried out in order to obtain a relatively constant "interior temperature". In order to increase comfort, a correction value can be additionally adjusted, it being possible to use said correction value to take into account, for example, the clothing and/or activity of the vehicle occupants.